

**7<sup>th</sup> Grade Mathematics**  
**Course Description**  
**Mr. Costales (teacher)**

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**Overview of the Subject**

This course will prepare the 7th grade student for high school mathematics. Students will focus on higher level thinking skills, the problem solving process, and learn to use new skills to analyze and solve mathematical equations. This course will give the 7th grade students the foundations necessary for a strong start in high school.

**Methods of Instruction**

- A/B partners, warm-up, pressing questions, exit ticket, grouping, project based instruction, using manipulative, working on paper or on computer/calculator, real life applications, individual or group problem solving, and games, differentiated instruction (ELL and Sped), reflection notes, complex instruction

**Student Performance Goals:**

- Compare and order rational numbers using a number line, lists, and  $<$ ,  $>$ , and  $=$
- Fluently and accurately add, subtract, multiply and divide rational numbers
- Represent addition, subtraction, multiplication and division of positive and negative integers visually and numerically
- Fluently and accurately add, subtract, multiply and divide rational numbers
- Define and determine the absolute value of a number
- Solve two-step linear equations
- Write an equation that corresponds to a given problem, situation, and describe a problem situation that corresponds to a given equation
- Solve single and multi-step word problems involving rational numbers and verify the solution
- Mentally add, subtract, multiply, and divide simple fractions and decimals and percents
- Determine the surface area and volume of cylinders using the appropriate formulas and explain
- Represent the sample space of probability experiments in multiple ways
- Graph ordered pairs of rational numbers and determine the coordinates of a given point on the coordinate plane
- Analyze a problem situation to determine the questions to be answered

**Subject Matter Content:**

- Rational numbers and linear equations
- Proportionality and Similarity
- Surface Area and Volume
- Probability and data
- Reasoning, problem solving and communication
- Additional key content

Textbooks: 7<sup>th</sup> Grade CMP2 – Accentuate the Negative, Algebra mini-unit, Stretching and Shrinking, Comparing and Scaling, Data Distribution, What Do You Expect, Filling and Wrapping, Moving Straight Ahead, Conversions

Other Resources: PIZZAZZ, Navigator, MESA, Internet, United Streaming Successmaker

## **Grading**

The student's grade will be determined by a percentage of points earned for that marking period.

Grades are based on:

Classroom work (Warm-ups, daily problems) and Homework (packet or ACE in the book) – 30%  
Participation (A/B partner, class discussion) – 20%  
Projects, Quizzes (Friday and Exit Ticket) and Tests – 30%  
Behavior (Big Five) – 20%

Grading Scale:

A- 90-100 %  
B- 81-89 %  
C- 71-80%  
D- 61-70%  
E- Below 60%

### **Ways of Contacting the Teacher (Mr. Costales)**

Before Class Starts – 8:00 AM

Any Time after 2:40 PM

### **Numbers to Call:**

Direct phone line: 206-252-7720

School – 206- 252-7700

Email: [rcostales@seattleschools.org](mailto:rcostales@seattleschools.org)